

# **Existing Renewable Facilities**Program

## Joint IEPR and Renewables Committee Workshop on Biopower in California

Hearing Room A

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# Existing Renewable Facilities Program (ERFP) Incentivizes production of RPS-eligible generation from existing renewable facilities

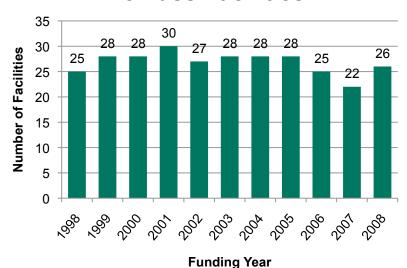
- Existing renewable facilities must be operational prior to September 25, 1996
- Currently eligible technologies:
  - Solid-fuel biomass
  - Solar thermal
  - Wind (Currently does not require assistance.)
- Facilities are assigned a target price and cent/kWh cap on funding based on their utility contract
- Production incentives for generation that is sold below a target price
- Provides production incentives to existing renewable generation facilities.
- From 1998 through 2008, existing solid-fuel biomass facilities have received \$180M in production incentive payments



## Status of Participating Solid-Fuel Biomass Facilities

- Currently, 27 solid-fuel biomass facilities are eligible for funding from the ERFP, 26 participated in 2008.
- In 2008, Participating facilities generated 3,200 GWh and received \$14.9 M in production incentives
- Six participating facilities have gone offline since 2001
  - One restarted in 2005
- In 2008, two solid fuel biomass facilities successfully restarted. These facilities were offline prior to the inception of the program.

### Program Enrollment of Biomass Facilities



Source: California Energy Commission ERFP Database.

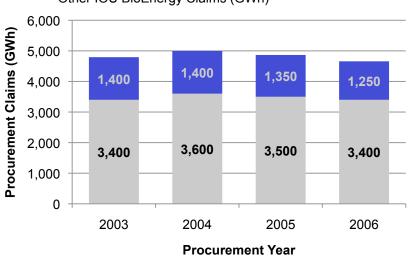


# Role of Existing Biomass in achieving California's RPS and Bioenergy Goals

- ERFP biomass facilities represent a large portion of the RPS procurement claims made by CA's 3 largest IOUs.¹
  - 70-73% of the bioenergy<sup>2</sup> claims
  - 15-16% of the total claims
- Executive Order S-06-06 requires 20% of the RPS to come from bioenergy sources by 2010/2020.

### IOU RPS Procurement Claims from Bioenergy Facilities

- IOU Claims From ERFP Biomass Generators (Gwh)
- Other IOU BioEnergy Claims (GWh)



- 1. IOUs include Pacific Gas and Electric, San Diego Gas and Electric, and Southern California Edison.
- 2. Bioenergy claims include RPS eligible biomass, biogas, landfill gas, digester gas, and MSW combustion. Source: California Energy Commission RPS Procurement Verification Database. Data represents claims submitted to the Energy Commission as of April 10, 2009 via CEC-RPS-Track form for the purpose of verifying RPS procurement claims.

# Cost and availability of fuel are barriers to a self-sustaining solid-fuel biomass industry in CA

- Statement based on information submitted on ERFP applications for funding<sup>1</sup>
- Fuel cost for solid-fuel biomass facilities range between \$20-\$60 Bone Dry Ton (BDT)
  - Includes transportation costs
  - $-1BDT \sim 1MWh$
  - The energy price received by many ERFP facilities is \$65.90/MWh (PG&E's fixed energy price for qualifying facilities; annual average)
- Causes for increased fuel costs and other factors decreasing fuel availability
  - Decline in the timber industry
  - Decline in construction and deconstruction
  - Transportation costs and diesel prices
  - Increased competition for feedstock
- 1. Other barriers identified by applicants include energy price concerns and the ability to sell GHG offsets under a cap and trade program. However, these topics are beyond the scope of this workshop.



### Industry-Proposed Solutions to Overcome Fuel Obstacles

- Solutions requiring statutory or regulatory changes
  - Restricting open burning of agriculture waste residue
  - Divert more green and wood waste from landfills (limit use for alternative daily cover)
  - Programs to cost-effectively utilize slash from logging and forest clearing operations
  - Eliminate the ban on federal forest-derived fuel for ERFP facilities (SB 3048, Statutes of 2008)
- Other solutions
  - Centralized fuel system or local fuel yards
  - Improving fuel processing systems to increase the variety of fuels a facility can utilize
  - Plant efficiency improvements



### **Additional Information**

#### **Document Links**

**ERFP** Eligibility Guidelines

www.energy.ca.gov/renewables/existing\_renewables/index.html

**RPS** Eligibility Guidelines

www.energy.ca.gov/portfolio/index.html

Renewable Portfolio Standard Procurement Verification

2006 report expected to be published summer 2009

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